AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) A method of creating thermal functional designs of textiles and clothing using a computer and visual display monitor controlled by the computer, the method comprising supplying the computer with information from databases relating to thermal physiological characteristics of a human body and thermal characteristics of ~~chosen~~ respective textile materials for computational simulation of the information, and creating visual images for the monitor showing modules of thermal functional designs for designing apparel and textile articles.

2. (Currently Amended) The method according to claim 1, in which the database of the human body comprises human model data for specific body ~~functions~~ characteristics, including size and shape.

3. (Previously Presented) The method according to claim 1, in which the database of the textile materials comprises clothing patterns data and product specification data.

4. (Original) The method according to claim 1, in which the database of the human body comprises thermal property data, including thermo-physiological and thermal comfort data of human body.

5. (Original) The method according to claim 1, in which the database of the textile materials comprises thermal property data, including fibres, yarns, fabrics and garments.

6. (New) A method of creating thermal functional designs of textiles and clothing comprising:

extracting a pattern for an article of clothing from a pattern database;

selecting thermal-physiological characteristics of the human body from a body database;

selecting thermal characteristics of a textile material from a textile database; and

simulating fitting of the article of clothing made from the textile selected on the human body and, using the thermal-physiological characteristics selected, displaying a visual image of thermal comfort of a human wearing the article of clothing made from the textile to aid designing textiles and articles of clothing.

7. (New) The method according to claim 6 wherein the textile database includes thermal property data for textile fibers, yarns, and fabrics.